

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation

Product name : ethyl 2-phenyl-2-piperidin-2-ylacetate HCl.

1.2 Use of substance/preparation

GC/MS Reference.

1.3. Company/ undertaking identification

Company :

2. HAZARDS IDENTIFICATION

Classification of the substance or preparation According to Regulation (EC) No1272/2008

Irritating to eyes and respiratory system.

Eye irritation (Category 2)

Specific target organ toxicity – single exposure (Category 3)

Label elements

Pictogram



Signal word

Warning

Hazard statement(s)

H319 || Causes serious eye irritation

H335	May cause respiratory irritation
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H336	May cause drowsiness or dizziness
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Precautionary statement(s)

P264 || Wash hands thoroughly after handling

P280	Wear protective gloves/protective clothing/eye protection/face protection
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P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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P337 + P313 || If eye irritation persists: Get medical advice/attention

P261 || Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray

P271 || Use only outdoors or in a well-ventilated area

P304 + P340 || IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 || Call a POISON CENTER or doctor/physician if you feel unwell

P403 + P233	Store in a well-ventilated place. Keep container tightly closed
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P405 || Store locked up

P501	Dispose of contents/container to a licensed disposal company
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EU product labeling according to Directives 67/548/EEC or 1999/45/EC:

Hazard symbol(s)

Xi || Irritant

*R-phrase(s)*

R36/37 ||Irritating to eyes and respiratory system.

S-phrase(s)

S26 ||In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 ||Wear suitable protective clothing.

Other hazards – none

3. COMPOSITION/INFORMATION ON INGREDIENTS**Ethyl 2-phenyl-2-piperidin-2-ylacetate Hydrochloride**

Formula	Molecular Weight	CAS-No.	EC-No.	Index-No.	Classification	Concentration
C15H21NO2	247.33274 g/mol	57413-43-1	-	-	Eye Irrit. 2; STOT SE 3; H320 Xi, R36, R42	-

For the full text of the H-Statements and R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

If inhaled	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (see heading 8). Avoid dust formation. Avoid breathing dust. Prevent contact with skin and eyes.
Environmental precautions	Do not let product enter drains.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal (see heading 13).

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Containment	Keep in closed containers.
Ventilation	Provide appropriate exhaust ventilation at places where dust is formed.
Fire prevention	Normal measures for preventive fire protection.
Environmental protection	Do not let product enter drains

7.2 Conditions for safe storage

Conditions of storage	Store in cool place. Keep container tightly closed in a dry place.
Incompatible materials	Strong oxidizing agents

7.3 Specific use(s)

Reference purposes for testing with GC/MS.
Laboratory chemical research.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Exposure limit values**

Occupational exposure values	no data available, general: http://echa.europa.eu/en/registration-and-restriction-reports
Biological limit values	no data available

8.2 Exposure controls**8.2.1. Occupational exposure controls****(a) Respiratory protection**

- Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.
- Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

(b) Hand protection

Avoid skin contact when handling the material by wearing impervious and chemical resistant gloves. In case of prolonged immersion or frequently repeated contact, gloves with breakthrough times greater than 480 minutes (protection class 6) are recommended. For brief contact or splash applications, gloves with breakthrough times of 30 minutes or greater are recommended (protection class 2 or greater). Suggested materials for protective gloves: Butyl rubber, Nitrile rubber, Neoprene. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection

safety glasses with side-shields conforming to EN166

(d) Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

(e) Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.

8.2.2. Environmental exposure controls

See sections 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 General information****Appearance**

Form	solid
Color	white

9.2 Important health, safety and environmental information

pH	no data available
Boiling point	345.59 °C at 760 mmHg
Flash point	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	400.4 mg/L (at 25 °C)*
Solubility	Log Water Sol (moles/L) at 25 Deg c = -2.791*
Flammability	0
Oxidizing properties	no data available
Vapour Pressure	2.49E-005 mmHg at 25 °C*
Density	no data available
Partition coefficient	Log Kow = 3.2719*
Viscosity	no data available
Vapour density	no data available
Evaporation rate	no data available

*Predicted (EPI) values of freebase.

9.3 Other information

Miscibility	no data available
Fat solubility	no data available
Conductivity	no data available
Melting point	207 - 209 °C
Gas group	no data available
Ignition temperature	no data available

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid	no data available
10.2 Materials to avoid	Strong oxidizing agents

10.3 Hazardous decomposition products

<i>Hazardous decomposition products</i>	Formed under fire conditions: Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas
<i>Chemical stability</i>	Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Class: Aliphatic Amines / Organism: Fish / Duration: 96-hr LC50 (predicted Mg/L (ppm)): 7.461*
Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available

Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
<i>Specific target organ toxicity</i>	
-single exposure	Category 3 Inhalation - May cause respiratory irritation.
-repeated exposure	no data available
Aspiration hazard	no data available
<i>Potential health effects</i>	
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	Causes eye irritation.
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information	RTECS: Not available

*Predicted (EPI/ECOSAR) values of freebase

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity	Class: Aliphatic Amines / Organism: Fish / Duration: 96-hr LC50 (predicted Mg/L (ppm)): 7.461*
12.2 Mobility in soil	Estimated Koc from MCI: 3008* Estimated Koc from Log Kow: 421.4*
12.3 Persistence and degradability	no data available
12.4 Bioaccumulative potential	Log Kow = 3.2719*
12.5 PBT and vPvB assessment	Class: Aliphatic Amines / Organism: Fish ChV (predicted Mg/L (ppm)): 0.143*
12.6 Other adverse effects	no data available

*Predicted (EPI/ECOSAR) values of freebase

13. DISPOSAL CONSIDERATIONS

<i>Product</i>	Offer surplus and non-recyclable solutions to a licensed disposal company Do not let product enter drains Dispose of in suitable closed container
<i>Contaminated packaging</i>	Dispose of as unused product
Observe environmental regulations, national or regional provisions may be in force.	

14. TRANSPORT INFORMATION

ADR/RID	IMDG	IATA
Not dangerous goods	Not dangerous goods	Not dangerous goods

This substance is not listed in the Annex I of Regulation (EC) No 689/2008.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
This safety datasheet complies with the requirements of Regulation (EC) No 1272/2008.
This substance is not classified in the Annex I of Directive 67/548/EEC
This substance is not listed in the Annex I of Regulation (EC) No 689/2008.
This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances)

<i>Chemical Safety Assessment</i>	Has not been carried out for this substance.
<i>EU Authorizations and/or restrictions on use</i>	No Additional Information
<i>Other EU information</i>	No Additional Information
<i>National regulations</i>	No Additional Information

OTHER INFORMATION

Text of H-statement(s) and R-phrases mentioned in Section 2 and 3

Hazard (H) Statements

H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

Risk (R) phrases

R36/37	Irritating to eyes and respiratory system.
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Other

Eye Irrit.	Eye irritation
STOT SE	Specific target organ toxicity – single exposure
Xi	Irritant

Further information

2. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product and makes no warranty of merchantability. , shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. See End User Agreement for additional terms and conditions of sale.